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CENTRAL INTELLIGENCE AGENCY

REPORT

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INFORMATION FROM

FOREIGN DOCUMENTS OR RADIO BROADCASTS

CD NO

COUNTRY USSR

DATE OF
INFORMATION 1948

SUBJECT Economic - Peat industry

HOW
PUBLISHED Monthly periodical

DATE DIST. 7 Feb 1950

WHERE
PUBLISHED Moscow

NO. OF PAGES 4

DATE
PUBLISHED Dec 1948

LANGUAGE Russian

SUPPLEMENT TO
REPORT NO.

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SOURCE Torfyanaya Promyshlennost', No 12, 1948,

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THE UMPF-4 PEAT-CUTTING MACHINE PROVES EFFECTIVE

L. V. Pyatakov

The 1948 peat season was the first season during which mass utilization was made of the UMPF-4 peat-cutting and gathering (frezuborochnaya) machine. The 1948 plan established by the Council of Ministers USSR for machine-cut (frezernyy) peat was fulfilled 106.8 percent. The average moisture in peat produced by peat trusts ranged from 41.4 to 46.9 percent.

The Main Administration of Peat, in its program for peat production mechanization, made the mistake in the autumn of 1947 of distributing available machines among many enterprises instead of concentrating on those which had given particular attention to getting peat bogs and peat workers ready for the use of machines. Results appear in the following table.

Trust	48 Plan Fulfilled in %	No of UMPF-4 Machines			Moisture in %
		Total	Operating	Reserve	
Shatura	141.7	33	24	9	46.1
Orehovo	162.0	18	16	2	41.4
Kalinin	36.6	4	4	-	46.0
Yaroslavl'	75.3	11	8	3	46.8
Ivanovo	83.8	20	20	-	46.2
Gor'kiy	94.0	7	4	3	44.0
Kirov	100.2	6	4	2	43.1
Leningrad	108.0	27	20	7	46.9
"Pal'tso" Peat Enterprise	57.0	8	8	-	43.9
Bryanskoye Peat Enterprise	109.8	5	4	1	46.5
Main Administration of Peat	106.8	139	112	27	45.06

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The above table indicates that peat trusts where machines were concentrated in large numbers considerably exceeded the plan.

Only nine out of 17 enterprises successfully met the plan for mechanized peat production. These were as follows:

<u>Enterprise</u>	<u>Plan Fulfillment in %</u>
Ozeretskoye	162
Pustoshinskoye	152.4
Ryazanovskoye	139
Sinyavinskoye	129
Gatchinskoye	112
Bryanskoye	109.8
Osanovo-Dubovoye	102.5
Orichevskoye	100.2
Berendeyevskoye	199

Enterprises which were particularly unsuccessful in meeting the plan were as follows:

<u>Enterprise</u>	<u>Plan Fulfillment in %</u>
"Pal'tao"	57
Varegovskoye	36.1
Ozeretsko-Nepluyevskoye	33.6
Murav'yevskoye	24.4

One of the most unsatisfactory aspects of the use of the UMPF-4 machines was the low number of days each machine was used during the season, as indicated in the following table:

<u>Trust</u>	<u>Total No of Ma- chines</u>	<u>No of Machines Working Indicated Number of Machine Workdays</u>								<u>Less than 10</u>
		<u>71- 75</u>	<u>61- 70</u>	<u>51- 60</u>	<u>41- 50</u>	<u>31- 40</u>	<u>21- 30</u>	<u>11- 20</u>		
Shatura	33	-	8	7	7	6	3	1		1
Orekhovo	18	8	7	1	2	-	-	-		-
Kalinin	4	-	-	-	-	1	1	2		-
Yaroslavl'	11	-	1	2	1	1	4	1		1
Ivanovo	20	-	3	8	4	2	2	1		-
Gor'kiy	7	-	-	-	-	3	1	3		-
Kirov	6	-	-	-	3	1	-	1		1
Leningrad	27	-	-	1	18	3	2	3		-
"Pal'tao" Peat Enterprise	8	-	-	-	-	8	-	-		-
Bryanskoye Peat Enterprise	5	-	-	-	5	-	-	-		-
Main Administra- tion of Peat	139	8	19	19	40	25	13	12		3

The low number of machine workdays can be accounted for in part by faults in machines put out by the Main Administration of Peat Machinery. Two of these faults were poor welding, which resulted in breakages, and nonstandardization of parts.

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The average length of the workday, planned at 13 hours, presupposed the work of all machines in no less than two shifts during June and July. Enterprises of the Leningrad Trust and the Yaroslavl' Trust utilized the long summer days least of all. The average number of workdays in these trusts in June and July was 4.8 to 9.8 and 4.5 to 9.2, respectively. The following table lists the average number of workhours per day by enterprises for May, June, July, and August:

Enterprise	No of Workhours Per Day			
	May	Jun	Jul	Aug
Pustoshinskoye	10	12	12	8
Osanovo-Dubovoye	-	16	14	14
Ryazanovskoye	-	13	16	9
Ozeretskoye	10.7	15.4	14	12
Ozeretsko-Nepluyevskoye	12.5	12.6	15.5	12.4
Orichevskoye	-	10.1	8.3	7.7
Gatchinskoye	9.5	11	9.8	10.4
Kobrin'skoye	13.7	6.2	7.9	11.3
Sinyavinskoye	4.0	4.8	7.7	6.0
Varegovskoye	7.5	4.7	9.2	8.9
Berendeyevskoye	5.5	8.5	6.5	8.7
Murav'yevskoye	-	4.5	4.9	7.3
Fikinskoye	8	13	13	10.3
"Pal'tso"	-	10	8	6.5

The following table indicates that not all enterprises and trusts were able to achieve the established production cycle, a situation which is reflected in the machine performance in tons:

Trust	Production Cycle (tons)		Gross Performance of Machines per Hr (ha)	
	Plan	Performance	Plan	Performance
Shatura	14.87	17.05	0.52	0.50
Orekhovo	17.8	16.2	0.52	0.536
Kalinin	17.8	20.4	0.52	0.28
Yaroslavl'	19.1	17.9	0.52	0.63
Ivanovo	20.9	19.65	0.52	0.447
Gor'kiy	22.0	21.7	0.52	0.50
Kirov	21.7	24.2	0.52	0.577
Leningrad	18.4	18.5	0.52	0.64
"Pal'tso"				
Peat Enterprise	18.4	13.0	0.52	0.48
Bryanskoye				
Peat Enterprise	18.0	20.0	0.52	0.52
Main Administration of Peat			0.52	0.523

Out of 17 enterprises, ten exceeded the production-cycle quota. Among these were all enterprises of Shatura Trust, Gatchinskoye and Kobrin'skoye enterprises of Leningrad Trust, Berendeyevskoye Enterprise of Yaroslavl' Trust, and a number of others. Among those not achieving the established production cycle were

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Varegovskoye Enterprise, which completed 88 percent of the plan; Murav'yevskoye Enterprise, 85 percent; the first Teykovskoye Enterprise, 84.6 percent; Podozerskoye, 91.5 percent; Sinyavinskoye, 88.5 percent; and "Pal'tso", 70.8 percent.

In spite of existing flaws in work organization and the exploitation and preparation of machines, 53 out of 139 machines in operation fulfilled and considerably exceeded the established plan.

Avg Performance per Machine (tons)			No of Machines Handling Indicated Number of Thousands of Tons									
Trust	Plan	Performance	9- 10	8- 9	7- 8	6- 7	5- 6	4- 5	3- 4	2- 3	Less than 2	
Shatura	4,794	4,940	-	2	1	8	7	6	1	5	3	
Orekhovo	5,500	7,900	4	4	6	1	3	-	-	-	-	
Kalinin	5,050	1,700	-	-	-	-	-	-	1	-	3	
Yaroslavl'	7,050	3,860	-	2	1	-	-	-	3	1	4	
Ivanovo	6,540	5,470	1	1	3	3	4	2	4	1	1	
Gor'kiy	7,000	3,330	-	-	-	-	-	-	2	2	1	
Kirov	6,400	4,270	-	-	-	2	1	1	-	-	2	
Leningrad	5,500	4,400	-	-	2	3	7	2	7	2	4	
"Pal'tso"												
Peat En- terprise	5,700	3,250	-	-	-	-	-	-	8	-	-	
Bryanskoye												
Peat En- terprise	5,600	4,920	-	-	-	-	-	5	-	-	-	
Avg	5,686	4,950	5	9	13	17	22	18	26	11	18	

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